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U.S. Spy Chief: Cyberspace Is Potential Battlefield

REPRINTED FROM: *Reuters*
OCT 16, 2000 ARTICLE ID: 377

by Jim Wolf

The head of the super-secret U.S. National Security Agency (NSA) said on Monday that cyberspace had become as important a potential battlefield as any other and held out the prospect of attacking there as well as defending.

"Information is now a place," Air Force Lt. Gen. Michael Hayden told a major computer security conference here. "It is a place where we must ensure American security as surely as ... and, sea, air and space."

He cited moves to define the "legal structure into which we must fit" before offensive "information operations" -- cyberattacks -- were officially added to the arsenal that U.S. commanders can use against a foe. The NSA is the Defense Department arm that intercepts communications worldwide.

The world of information "has taken on a dimension within which we will conduct operations to ensure American security," Hayden said, adding that the NSA had not been authorized to do "that attack thing," or go on the offensive in cyberspace.

But as the United States government begins to think about what it should or wants to do when it is under attack, it raises a really interesting question that we all have to work through in the context of our overall democracy," he said.

A year ago Army Gen. Henry Shelton, chairman of the Joint Chiefs of Staff, disclosed that the United States tried to mount electronic attacks on Serbian computer networks during the NATO air campaign over the province of Kosovo.

We only used our capability to a very limited degree," Shelton told reporters at the time.

Hayden said a key challenge to the NSA today was to protect U.S. telecommunications in a world where the adversaries might be "cyberterrorists, a malicious hacker or even a non-malicious hacker."

All can cause great harm" to the networked systems that tie the industrialized world together, he told the conference co-sponsored by the NSA and the National Institute of Standards and Technology, an arm of the Commerce Department. Hayden said the NSA, the Pentagon's code-making and code-breaking agency, was committed to developing its partnerships with industry to boost computer network security.

We've done pioneering work to better protect e-commerce" as well as to develop biometrics, ways in which computers authenticate identities from

security straight

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unique traits such as fingerprints, iris scans and voice recognition, he said.

Ultimately the NSA must become the "security statement" of the U.S. telecommunications and computer industries, just as he views the Air Force as the "military statement" of the aviation industry, he said.

How else does our society develop the tools we need to do what it is that our agency has been charged to do?" he asked. The NSA designs codes to protect the integrity of U.S. information systems and searches for weaknesses in foes' systems and codes.

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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name Todd Ingberg Examiner #: 75084 Date: 03/03/2005Art Unit: 2124 Phone Number 2-3723 Serial Number None

Mail Box Location: Results Format Preferred (circle): PAPER DISK E-MAIL

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Product Name : Norton AntiVirus Corporate Edition VERSION 7.0

Release date on this product needed.

Company : Symantec

Documentation date is from 1999 documentation version 1.0

Todd Ingberg

Primary Examiner, Art Unit 2124

Randolph Building Room D5A09

EIN 75084 (571) 272-3723

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4/9/2 (Item 2 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
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2571964 Supplier Number: 02571964 (THIS IS THE FULLTEXT)

A New Take On Virus Protection

(Trend Micro Inc to launch eDoctor Global Network, an Internet virus protection service in which the products and antivirus expertise of Trend Micro are combined with the network and security management expertise of service providers)

InternetWeek, p 8

September 13, 1999

DOCUMENT TYPE: Journal ISSN: 0746-8121 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 388

TEXT:

By: Rutrell Yasin

With the number of viruses growing, there are several ways IT managers can plan to proactively secure their enterprises from the latest strains.

One approach is to purchase the latest wares from suppliers of antivirus software. Companies such as Symantec Corp. and Network Associates are gearing their next releases to offer near real-time updates as quickly as viruses are discovered.

But for IT managers who don't want to manage antivirus software updates, another approach is being trumpeted by Trend Micro Inc. This approach will let users receive virus protection as a value-added service from Internet service providers, telcos and providers of managed security services.

At this week's NetworkWorld+Interop trade show in Atlanta, the company will launch the eDoctor Global Network, an Internet virus protection service that combines Trend Micro products and antivirus expertise with the network and security management expertise of service providers.

According to security experts, eDoctor will help companies constantly monitor their networks and respond faster to new threats.

"Keeping virus signatures up to date is a time-consuming process for internal IT departments. We can push virus signature updates to clients on a proactive basis," said Steve Dorsey, president of Breakwater Security Associates, a provider of managed firewall and intrusion detection services that will offer eDoctor virus protection to its corporate customers.

US West.net and Sprint also plan to provide services based on eDoctor. Service providers will act as "virtual IT administrators" to users offering online monitoring, service and support, said Trend Micro CEO Eva Chang.

If a virus strain is detected by the service provider, it will automatically be sent to Trend Micro, which will aid the provider in quarantining the virus and sending a fix to users. Each service provider will determine pricing.

In certain respects, eDoctor echoes approaches adopted by Network Associates and Symantec Corp. Network Associates' AutoImmune System and Symantec's Digital Immune System software, the latter of which is based on IBM's Immune System technology, lets companies automate the detection and

immunization of viruses spread via e-mail or from Web sites. Customer trials are slated for this fall.

Symantec this week will unveil Norton AntiVirus **Corporate Edition** 7.0, which includes systems and policy management functions that let IT administrators control and monitor all machines in a domain-including Windows NT and NetWare servers-from a single centralized console.

September 13, 1999

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COMPANY NAMES: TREND MICRO

INDUSTRY NAMES: Software

PRODUCT NAMES: Utility software packages (737242)

CONCEPT TERMS: All product and service information; Product introduction

GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

4/9/3 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01900285 05-51277

Symantec bolsters Norton antivirus software

Messmer, Ellen

Network World v16n37 PP: 143 Sep 13, 1999 ISSN: 0887-7661 JRNL CODE: NWW

DOC TYPE: Journal article LANGUAGE: English LENGTH: 1 Pages

WORD COUNT: 288

COMPANY NAMES:

Symantec Corp (DUNS:06-469-6941 TICKER:SYMC)

GEOGRAPHIC NAMES: US

DESCRIPTORS: Product introduction; Software upgrading; Computer viruses; Prevention

CLASSIFICATION CODES: 9190 (CN=United States); 9120 (CN=Product specific); 5240 (CN=Software & systems); 5140 (CN=Security)

ABSTRACT: Symantec this week will ship an upgrade to the **corporate edition** of its Norton Anti-Virus software that adds Novell NetWare support to what was formerly NT-only virus protection. In addition, Symantec is beta-testing a management console for large-scale software management of desktops or servers using Norton Anti-Virus.

TEXT: CUPERTINO, CALIF. - Symantec this week will ship an upgrade to the **corporate edition** of its Norton Anti-Virus software that adds Novell NetWare support to what was formerly NT-only virus protection.

In addition, Symantec is beta-testing a management console for large-scale software management of desktops or servers using Norton Anti-Virus.

The Symantec System Center console will allow a network manager to centrally deploy Norton Anti-Virus software updates to hundreds of thousands of desktop users or servers, says Gary Ulaner, Symantec senior product manager. The current Symantec console is limited to 250 users and only works in an NT environment. With the new version, corporations won't have to use multiple consoles for mass deployment. Plus, the single console will manage NT and NetWare clients and servers.

DIALOG(R)File 9:Business & Industry(R)
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2589498 Supplier Number: 02589498 (THIS IS THE FULLTEXT)

Symantec Offers Norton Upgrade

(Symantec introduced update to the corporate edition of its Norton Antivirus software and a systems and policy management tool developed with technology from URLabs)

Computer Reseller News, p 96

September 27, 1999

DOCUMENT TYPE: Journal ISSN: 0893-8377 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 172

TEXT:

By: Amber Howle

Cupertino, Calif. - Symantec Corp. unveiled an update to the corporate edition of its Norton Antivirus software, as well as a systems and policy management tool developed with newly acquired technology from URLabs.

Norton Antivirus Corporate Edition 7.0 and Symantec System Center are slated to ship next month, the company said.

Norton Antivirus 7.0 protects corporations from malicious virus attacks, while System Center allows IT personnel or integrators to manage remotely and maintain antivirus policies inside the enterprise, according to Cupertino-based Symantec.

"A systems integrator at the high end or a low-end VAR can use this solution in any shop they work with," said Tom Ristine, senior product manager for Norton Antivirus Corporate Edition. "(With System Center) they can manage it remotely for the end user."

Norton AntiVirus 2000 also provides automatic protection against viruses, but is geared toward consumers, said Ristine.

In July, Symantec acquired URLabs, a Hampton, Va.-based developer of Internet access control and E-mail scanning solutions as part of its new security focus.

September 27, 1999

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COMPANY NAMES: SYMANTEC CORP

INDUSTRY NAMES: Applications software; Software

PRODUCT NAMES: Utility software packages (737242); Business software packages NEC (737275)

CONCEPT TERMS: All product and service information; Product development

GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

?

Set to ship in October, the Symantec System Center console will periodically scan any computer running Norton AntiVirus **Corporate Edition** 7.0 to ensure the machine is running the latest updates. Antivirus software, by necessity, is subject to update whenever dangerous new viruses are spotted.

Norton Anti-Virus **Corporate Edition** 7.0, working with the console, will include a "Quarantine Server," which can store suspicious files a user may receive or those damaged beyond repair. From the quarantine, a network manager can dispatch the problem file via e-mail to Symantec's lab for review.

When the file is fixed, the Symantec lab returns the file. Symantec calls this process "Scan and Deliver," and it's based on technology developed by IBM. Whenever a virus "cure is created, this cure is made available to other Norton Anti-Virus subscribers, as well.

Norton calls the entire antivirus software and console package the Norton Anti-Virus Enterprise Solution. Distributors typically price the package between \$6 and \$60 per node, depending on volume.

Symantec: www.symantec.com

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4/9/7 (Item 4 from file: 16)

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06871428 Supplier Number: 57817619 (THIS IS THE FULLTEXT)
Corporate AntiVirus. (Symantec). (What's Hot) (Brief Article) (Product Announcement)
InformationWeek, p144
Nov 29, 1999
ISSN: 8750-6874
Language: English Record Type: Fulltext
Article Type: Brief Article; Product Announcement
Document Type: Tabloid; General Trade
Word Count: 106
TEXT:

Symantec System Center proactively addresses cost, credibility, and uptime threats. It's a key component of the Norton AntiVirus Enterprise Solution, which enables centralized management of antivirus software across workstations and servers. Using Intel systems and policy-management technology, its automatic node discovery enables centralized deployment and updating of antivirus software to Windows 95/98/NT/2000 clients and Windows NT and Novell NetWare servers. End-point control over Norton AntiVirus functionality lets administrators configure and lock settings and enforce business policies. Price: \$7 to \$55 per seat, which includes one year of upgrade insurance and Gold support.

Symantec: 800-441-7234; www.symantec.com
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PUBLISHER NAME: CMP Media, Inc.
COMPANY NAMES: *Symantec Corp.
EVENT NAMES: *336 (Product introduction)
GEOGRAPHIC NAMES: *1USA (United States)

PRODUCT NAMES: *7372530 (Disk/File Management Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); TELC (Telecommunications)
NAICS CODES: 51121 (Software Publishers)
TRADE NAMES: Norton AntiVirus **Corporate Edition** 7.0 (Anti-virus software)
SPECIAL FEATURES: COMPANY

4/9/10 (Item 7 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)
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06695838 Supplier Number: 56001307 (THIS IS THE FULLTEXT)
Symantec helps centralize administration of Norton AntiVirus .(Symantec System Center)(Product Announcement)

Moore, Cathleen
Network World, pNA
Sept 20, 1999
ISSN: 0887-7661
Language: English Record Type: Fulltext
Article Type: Product Announcement
Document Type: Tabloid; Trade
Word Count: 363
TEXT:

Recognizing that deploying and supporting anti-virus solutions is a major headache for IS managers, Symantec on Tuesday announced Symantec System Center, a systems and policy management tool designed to centralize administration of the company's Norton AntiVirus product.

The tool is said to provide automatic node discovery in order to allow centralized updating and deployment of the Norton AntiVirus Enterprise Solution across Windows 95/98, Windows NT, and Windows 2000 clients, and Windows NT and NetWare servers. This end-point control over anti-virus functionality lets administrators configure and lockdown settings in real time and enforce corporate policies, according to Symantec.

IT managers can use the Symantec System Center to customize alerts and automate responses to users and server groups, automatically update virus definitions and level of automation, and communicate in real time with clients and servers. Real-time communication, for example, allows IT managers to perform virus sweeps across individual nodes, groups of nodes, or the whole enterprise from a single location.

Symantec System Center will be available in October, but pricing has yet to be determined.

Symantec also announced Norton AntiVirus **Corporate Edition** 7.0, the latest release of its virus-protection software for Windows 3x, Windows 9x, Windows NT/2000 and NetWare.

The product is available in managed and stand-alone configurations, allowing IT managers to choose the right anti-virus solution for a mixed desktop and mobile environment.

Norton AntiVirus 7.0 features the Quarantine Server, which is said to provide a safe central location for isolating suspicious or damaged files. The new Quarantine console allows IT managers to visually track virus status and set parameters for virus management. The console lets administrators manage the Quarantine Server locally or from a remote computer.

The product also includes a new version of the company's Scan and Deliver feature, an automatic global response process for submitting infected files and for receiving virus repair definitions over e-mail.

Another feature of AntiVirus 7.0 is LiveUpdate, which provides the most up-to-date virus definitions to clients and administrators from the Symantec Web site.

Pricing has yet to be announced for Norton AntiVirus **Corporate Edition** 7.0, which will ship in October.

Symantec Corp., in Cupertino, Calif., is at www.symantec.com.

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PUBLISHER NAME: Network World, Inc.

COMPANY NAMES: *Symantec Corp.

EVENT NAMES: *336 (Product introduction)

GEOGRAPHIC NAMES: *1USA (United States)

PRODUCT NAMES: *7372611 (Network Management Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51121 (Software Publishers)

TRADE NAMES: Symantec System Center (Network management software); Norton AntiVirus **Corporate Edition** 7.0 (Anti-virus software)

SPECIAL FEATURES: COMPANY

4/9/14 (Item 11 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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06632000 Supplier Number: 55739604 (THIS IS THE FULLTEXT)

Norton Antivirus Corporate Edition 7 . 0 **Automatically Protects Corporations Against Malicious Virus Attacks.**

PR Newswire, p6997

Sept 14, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 946

TEXT:

Product Helps Maintain Corporate Anti-Virus Policies, Offers Centralized Management

ATLANTA, Sept. 14 /PRNewswire/ -- Symantec Corporation (Nasdaq: SYMC) today announced Norton AntiVirus **Corporate Edition** 7.0, and Symantec System Center, the next generation in a family of best-of-breed products. The solution protects corporations from malicious virus attacks and is one part of Symantec's Norton AntiVirus Enterprise Solution. Symantec System Center will allow companies to easily manage Norton AntiVirus **Corporate Edition** 7.0 as well as maintain appropriate anti-virus policies inside the enterprise. The solution uses state-of-the-art patented technology developed by Symantec, IBM, and Intel to deliver virus protection that keeps systems running at peak performance.

"Norton AntiVirus **Corporate Edition** 7.0 is a significant step forward in corporate virus protection for desktops and servers, providing intelligent, proactive problem-detection and problem solving capabilities," said Enrique Salem, vice president of Symantec's Security and Assistance Business Unit. "With the inclusion of the next generation of Scan and Deliver, the product enables virus cures to be created and delivered faster than the malicious code can spread in many cases."

Norton AntiVirus **Corporate Edition** 7.0 and Symantec System Center include proven systems and policy management technology from Intel. This technology allows administrators to easily and efficiently protect, control, and monitor all machines in a domain, including both Windows NT and NetWare servers, from a single centralized console. Norton AntiVirus

Corporate Edition 7.0 is available in managed and standalone configurations, thereby giving administrators the flexibility to select the most appropriate anti-virus software for their mixed desktop/mobile client environments.

With Norton AntiVirus **Corporate Edition 7.0**, corporations receive multi-tier protection for Windows 9x, Windows NT/2000 workstation and server, NetWare, and Windows 3.x/DOS.

Using the Quarantine Server, administrators have a safe central location for isolating suspicious files or files damaged beyond repair. Administrators can then easily submit these files to SARC for analysis. The new Quarantine console allows administrators to manage the Quarantine Server either locally or from a remote computer. This console allows the IT manager to visually track virus status and set parameters for virus management across domains. The new DefWatch feature enables the IT manager to monitor and control the processing of infected files being held in Quarantine when new virus definitions are returned from SARC.

Norton AntiVirus **Corporate Edition 7.0** also includes a new version of the highly successful Scan and Deliver feature that provides customers with the most complete and accurate anti-virus protection cycle available. The new Scan and Deliver is an automatic, global response process for submitting suspected or infected files and receiving new virus repair definitions over e-mail. When a new viral event is discovered at a client, the system can automatically package and forward the sample to the Quarantine Server from where it can be submitted directly to SARC. Once SARC receives the sample, it is automatically passed to the new Symantec AntiVirus Research Automation (SARA) technology which can in turn, automatically create a cure and transmit the resulting fix back to the reporting corporation. The cure is also made available to other service subscribers, which significantly minimizes the possibility of widespread infection. This automation technology will greatly reduce the amount of time to create a cure for a new virus, providing much relief to the IT administrator from today's fast moving threats. The new Scan and Deliver is based on technology co-developed with IBM.

The product is the first anti-virus product to deliver highly automated and hands-free virus protection. To minimize IT costs in the face of unknown virus threats, Norton AntiVirus **Corporate Edition 7.0** relies on a unique technology called NAVEX. With this technology, Norton AntiVirus can be updated to include protection from new and unknown viruses without having to redeploy the software.

LiveUpdate provides a simple two-click process for end-user clients or server administrators to get the most current virus definitions from the Symantec web site on a global 24x7 basis. LiveUpdate Admin enables IT managers to download a complete set of the most current virus definitions for the entire domain and for any mix of platform types; these definitions, in turn, are used by end-users to update their personal virus definitions. Norton AntiVirus **Corporate Edition 7.0** also provides microdefinitions -- incremental virus definition downloads -- with weekly updates via LiveUpdate Admin. With microdefinitions, instead of sending a complete set of virus definitions to the requestor, only necessary definitions are sent.

Availability

Norton AntiVirus **Corporate Edition 7.0** is expected to be available in October 1999.

About Symantec

Symantec is the world leader in Internet security technology and technology solutions that help companies manage and support workforces that use laptop computers and other mobile devices.

The company is a leading provider of software products for the consumer market and is rapidly growing its presence as a provider of solutions to enterprise organizations.

Forward Looking Statement: This press release contains forward-looking statements. There are certain important factors that could cause Symantec's future development efforts to differ materially from those anticipated by some of the statements made above. Among these are the anticipation of the growth of certain market segments, the positioning of Symantec's products in those segments, the competitive environment in the software industry, dependence on other products, changes to operating systems and product strategy by vendors of operating systems, and the importance of new Symantec products. Additional information concerning those and other factors is contained in the "Risk Factors" section of the company's annual report on Form 10-K for the fiscal year ended April 2, 1999.

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GEOGRAPHIC NAMES: *1USA (United States)

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(Disk/File Management Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: SYMC

SPECIAL FEATURES: COMPANY

4/9/20 (Item 3 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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04457421 Supplier Number: 56260401 (THIS IS THE FULLTEXT)

SYMANTEC: Norton Antivirus Corporate Edition 7.0 pr protects corporations against malicious virus attacks.

M2 Presswire, pNA

Sept 15, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 838

TEXT:

M2 PRESSWIRE-15 September 1999-SYMANTEC: Norton Antivirus **Corporate Edition** 7.0 automatically protects corporations against malicious virus attacks (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:140999

* Product Helps Maintain Corporate Anti-Virus Policies, Offers Centralized Management

CUPERTINO, Calif. -- Symantec Corporation (Nasdaq: SYMC) today announced Norton AntiVirus **Corporate Edition** 7.0, and Symantec System Center, the next generation in a family of best-of-breed products. The solution protects corporations from malicious virus attacks and is one part of Symantec's Norton AntiVirus Enterprise Solution. Symantec System Center will allow companies to easily manage Norton AntiVirus **Corporate Edition** 7.0 as well as maintain appropriate anti-virus policies inside the enterprise. The solution uses state-of-the-art patented technology developed by Symantec, IBM, and Intel to deliver virus protection that keeps systems running at peak performance. "Norton AntiVirus **Corporate Edition** 7.0 is a significant step forward in corporate virus protection

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INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,
International)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: SYMC

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December 31, 1999

[Symantec Announces Completion Of SalesLogix Acquisition Of Act!](#)

December 20, 1999

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[Omni Tech Corporation Reduces Customer Installation Cost; Purchases 100,000 Licenses Of Norton Ghost](#)

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[New Computer Virus Attacks Windows NT File Security Settings](#)

November 10, 1999

[Symantec and HP Integrate pcAnywhere With New HP OpenView Desktop](#)

November 9, 1999

ZDTV to Launch New Show: "CyberCrime" to Highlight Online Security and Issues

November 1, 1999

Symantec-Microsoft Partnership Makes Norton AntiVirus 2000 Free to Small Businesses for Limited Time

Norton Utilities for Macintosh 5.0, Norton AntiVirus for Macintosh 6.0 Comp Mac OS 9

October 26, 1999

Mobile Essentials Personal Edition Available Free To Public

October 25, 1999

Symantec Alliances To Deliver Internet-Based Content Security Solutions To Businesses

Symantec Provides Power Users Fast And Effective Solution To Optimize Hard Volumes

October 20, 1999

Symantec Announces Record Second Fiscal Quarter Results

October 19, 1999

Norton Antivirus For Firewalls 1.5 Eliminates Internet Viruses On IBM, CVP Before They Enter Corporate Network

October 18, 1999

Symantec First To Provide Cure For Melissa Variant Computer Virus

Symantec's Norton Internet Security First Product To Give Pc Users Complete Protection

Symantec Partners With E-Commerce Leaders To Give Consumers Easier Upgrades And "How To" Information

October 13, 1999

Symantec Named Vendor Of The Year From Buy.Com

Cuna Mutual Group Chooses Symantec's Family Of Corporate Software Solutions

Norton SystemWorks Honored By Leading Latin America Publication

October 11, 1999

Quality Integration Services, Inc. Purchases 150,000 Seat License From Symantec

October 6, 1999

Symantec Appoints Donald E. Frischmann As Vice President Worldwide Communications And Brand Management

October 1, 1999

Symantec Delivers Cutting-Edge Anti-Virus Technology With Striker32

September 29, 1999

Market Scan Information Systems Selects Symantec's Norton Helpdesk As Reduce Support Costs

September 27, 1999

Soft-letter Names Symantec One Of Ten Best Online Software Stores

September 23, 1999

Norton Antivirus 2000 Named Computer Shopper Best Buy

September 15, 1999

Chevron To Deploy Norton Speed Disk On 30,000 Machines Worldwide

September 14, 1999

Norton Antivirus Corporate Edition 7.0 Automatically Protects Corporations Malicious Virus Attacks

Symantec System Center Provides Systems And Policy Management For Antivirus Enterprise Solution

September 9, 1999

Norton AntiVirus 2.0 For Microsoft Exchange Keeps Groupware Environment From Virus Threats

September 2, 1999

Symantec-IBM Collaboration Yields Breakthrough Automated Macro Virus Analysis/Repair Technology

September 1, 1999

Norton Antivirus Products Among First To Achieve ICSA Cleaning Certificate

Symantec Teams with EarthLink in Promotional Offer to Provide Internet Users Ultimate in PC Security, Reliability, and Usability

Symantec, Dale Carnegie Training Deliver 11-Step Sales Development Cycle

August 31, 1999

Symantec Donates 15,000 Copies of Mobile Essentials 2.0 to Mexico's Ministry of Technology

August 30, 1999

Norton Ghost 6.0 Reduces Time to Recover, Install and Maintain PCs Across Multiple Sites

Norton SystemWorks 2000 Sets The Pace For Utility Suites

Dayton Hudson Corporation Turns to Symantec to Protect Network and Reduce Worker Cost

August 24, 1999

Getronicswang, Peoplesoft And Siemens Westinghouse Turn To Symantec Networks Safe

August 23, 1999

Symantec Announces Next Generation Intelligent Web Filtering Technology

Norton CleanSweep 2000 Eliminates Messy Internet Buildup With One Mo
Award-Winning Utility Recovers Hard Drive Clutter Caused by Web Surfing

Norton Antivirus 2000 Automatically Protects Against Internet And Email-B

Norton Utilities 2000 Makes Computer Maintenance and Repair Easy and F

August 19, 1999

pcAnywhere 9.0 Distinguished As Analyst Choice By PC Week

August 16, 1999

TalkWorks PRO 3.0 Manages Voice/Fax Communications to Give Small Bu
More Professional Image

Symantec Announces New Channel Program for Latin America

August 12, 1999

Symantec Norton Antivirus Sales Outpace Overall Industry Growth For 199

August 11, 1999

Symantec and HP Marketing Agreement Puts Mobile Essentials on HP CD
Airlines Admirals Clubs

August 10, 1999

Symantec Online Support Site Named Among Best In U.S.A.

August 9, 1999

Symantec's Norton AntiVirus Number One in U.S. Retail Sales for First Hal
Says PC Data

August 4, 1999

Symantec Adds IBM Neural Network Boot Detection Technology to Norton

University of California, Davis Selects Norton Antivirus After Extensive Soft
Evaluation

August 2, 1999

Symantec-IBM Partnership Puts Mobile Essentials 2.0 on Selected ThinkP

Norton Ghost Disk Cloning Tools Now Available for Power Users

Symantec Introduces First Utility to Completely Optimize Windows NT Volu

July 21, 1999

Symantec Leads U.S. Retail Software Sales Once Again

July 21, 1999

Symantec Announces Record First Fiscal Quarter Results

Symantec Announces Internet Centric Strategy Focused on Content Secur
Remote Device Management

Norton AntiVirus for Macintosh v6.0 Keeps Macs Virus-Free

New Norton Utilities for Macintosh v5.0 Keeps Macs Running at Peak Performance Levels

July 14, 1999

Symantec and Beyond.com Launch U.S. Online Software Store

July 12, 1999

Symantec First to Provide Immediate Cure for Back Orifice 2000 Trojan Horse

July 1, 1999

Symantec's Mobile Essentials Decreases Costs of Supporting Mobile Professionals
Creates, Administers Location Profiles

Symantec VisualCafé once again leads sales of Java Development Solutions

June 23, 1999

Mobile Workers Can Now Enjoy Benefits of Symantec's Award-Winning WinFax with Release of WinFax for Palm Computing® Devices

Symantec and Tivoli Provide Comprehensive Y2K Management Solution

Norton 2000 2.0 the Best Way to Help Consumers, Small Businesses Protect Themselves Against Y2K Problems

File Recovery Easy for Norton Utilities Users Hit By Worm.ExploreZip

June 22, 1999

Symantec is Number One in U.S. Software Sales for Second Consecutive Year

June 21, 1999

Symantec Norton AntiVirus Bundled with Intel Motherboards

June 16, 1999

Norton AntiVirus Named 1999 Software Product Of The Year By Windows Magazine

June 15, 1999

Symantec Announces Support for Sun's J2EE Specification

Symantec Once Again Boosts the Performance of Java Applications

Symantec VisualCafé™ Continues to Lead Sales of Java Development Tools

Symantec to Bundle Advanced UML Modeling Tool with its VisualCafé Enterprise

June 14, 1999

Symantec's pcAnywhere 9.0 Reduces Remote Network Management and Increases Security

Norton 2000 Corporate Edition 2.0 Eases Management Through Enhanced Administration, Improved Database Options

Industry Leaders Join Forces To Deliver Secure Remote Communications : Symantec, Tivoli

Symantec Offers Free Online Fix for Destructive Worm.ExploreZip Worm

June 11, 1999

Symantec's pcANYWHERE32 Receives Check Point Software OPSEC Ce

June 10, 1999

Symantec Plans to Establish Internet Tools Business Unit as Independent I
Technology Company

Symantec First to Provide Immediate Protection for High-Risk, Destructive
Worm.ExploreZip Worm

June 9, 1999

Norton SystemWorks 2.0 and Norton AntiVirus 5.0 Win 1999 World Class /
PC World

June 8, 1999

Procomm Customers Receive Free Standard Care Support From Symante

June 7, 1999

Kaiser Permanente Selects Norton Ghost as Part of Y2K Compliancy Strat

LandAmerica Financial Group Chooses Symantec Corporate Solutions to I
Defense, Network Efficiency and User Productivity and Support

Symantec Data Recovery Service Helps Businesses Recover From Disast

June 1, 1999

Anti-Virus in 1999 - Time to Review

Symantec Announces New Global License Program

May 26, 1999

Free Net Nanny Filtering Software Offered with Norton Utilities 4.0 During S
line Retail Promotion

May 24, 1999

IONA Technologies and Symantec Corporation Bring CORBA-EJB Middlew
Café Enterprise

Symantec is the Leader in U.S. Retail Software Sales

Symantec Unveils Strategy for Rapidly Building Web-based Applications W
JavaBeans Technology

May 20, 1999

Symantec First to Deliver Repair for PowerPoint Viruses, Including O97M.T
Infecting Microsoft Office Macro Virus

May 17, 1999

Preview Release of Mobile Essentials 2.0 now Available for Free Downloa

Symantec Announces Product Support for Windows 2000

May 13, 1999

Symantec Makes Safe Migration to MS Office 2000 Affordable through Spe

Promotion on Norton SystemWorks, Norton Utilities

Symantec's VisualCafé Wins Network Computing's 1999 Well-Connected A

May 12, 1999

IONA Technologies and Symantec Corporation Bring CORBA-EJB Middle
Café Enterprise

May 11, 1999

Symantec Unveils Digital Immune System Strategy for Unprecedented Lev
Managed, Intelligent Protection and Control

pcANYWHERE32 Continues to Outperform Competitors as Home Office C
Names It "Best Buy"

May 10, 1999

Symantec Offers Mobile WinFax for Palm Computing Platform

May 3, 1999

Symantec VisualCafé versions 3.0 and 3.0a pass rigorous Y2K testing at Z

Symantec Appoints Robin Matlock VP of Product Management

April 28, 1999

Norton Antivirus 5.0 Wins Prestigious Secure Computing Award

April 28, 1999

Symantec's TalkWorks PRO Named Editor's Choice by Computer Telephon

April 19, 1999

Symantec Announces Anti-Virus Uninstaller Technology to Help Companie
from Subscription-Based Licenses

April 15, 1999

Symantec Announces Record Fourth Fiscal Quarter and Fiscal Year 1999

April 14, 1999

Symantec Corporation Appoints John W. Thompson, Senior IBM Executive
President, CEO and Chairman

April 13, 1999

Norton Solutions Sweep Editors' Choice Awards in Annual PC Magazine U
Face-Off

April 12, 1999

Mobile Essentials Helps Mobile Professionals Quickly Adjust to New Locati

Symantec and AVT RightFAX Software Group Team Up to Integrate WinFax
With the RightFAX V6.0 Fax Server Product Line

Symantec Announces Alliance with HP to Expand Internet Business Oppor

April 5, 1999

Small Business Computing "Highly Recommends" One Y2K Product-Norton

Symantec Guards Groupware Environments with Norton AntiVirus 2.0 for Lotus Notes/Domino

April 1, 1999

Symantec and IBM Global Services Join Forces to Help Companies Hit by W97M.Melissa Virus

RadioShack and Symantec Announce Software Alliance

March 31, 1999

Symantec Offers Free Norton AntiVirus for Microsoft Exchange and Lotus Notes Companies at Risk from Melissa Virus

Remedy, Intel and Symantec Integrate Industry-Leading Solutions to Create Management Platform

Symantec Posts New Virus Definitions to Guard Against Variants of Melissa

March 30, 1999

Symantec Completes Quarterdeck Acquisition

March 29, 1999

Symantec Protects Users From New Melissa Macro Virus

March 23, 1999

Norton 2000 Named Best End-User Software at FOSE '99

Symantec and Remedy Corporation Partner to Deliver pcANYWHERE Integration

Symantec and Mercury Interactive Announce Testing Solution for Smooth VisualCafé Applications

March 22, 1999

Symantec Announces Stock Buy Back

March 19, 1999

Symantec Detects and Eliminates Recent Pentium III Serial Number Exploit

March 16, 1999

Aramark, Commonwealth Edison, BankBoston and Texas Utilities Rely on Symantec to Provide Anti-Virus Protection

March 15, 1999

Symantec Emerges from European Anti-Virus Market Consolidation as Leader in Retail

New Norton 2000 Package Addresses Y2K Needs of Small Businesses

Symantec™ and California State University, San Marcos Kick Off Their Series of VisualCafé™ for Java Training Seminars

March 11, 1999

Symantec Emerges from European Anti-Virus Market Consolidation as Leader in Retail

Symantec Strengthens Management Team with Chief Financial Officer and President Promotions

Electronic Greeting Cards are Safe; Blue Mountain and Symantec Expose

March 8, 1999

Symantec and InstallShield Software Corporation Form Partnership to Deliver Registration Solutions

Independent Research Shows Network Associates' Customers Are At Risk Potential Virus Infection

March 4, 1999

Symantec ships VisualCafé® Enterprise Suite

March 2, 1999

Symantec Increases Cost Savings for Macintosh Customers with Utility Solutions

Symantec Leads Retail Software Market During 1998

March 1, 1999

Symantec Recognizes Contribution of Electronic Commerce Partners to Online Security

Symantec Announces Norton SystemWorks 2.0

Norton AntiVirus the Only Office 2000-Ready AV Solution

February 26, 1999

Symantec's Norton Mobile Essentials Wins Prestigious Award at Mobile Industry Conference

February 22, 1999

Symantec's Norton Ghost Outperforms Imagecast in Ziff-Davis Independent Tests

Symantec's Norton HelpDesk Assistant Reduces Support Costs

February 17, 1999

Norton SystemWorks Bests McAfee Office to Earn Place on Windows Magazine's Top 100 List

February 16, 1999

Symantec Completes First Phase of IBM U.S. Anti-Virus Customer Transition

New Norton Utilities 4.0 the Most Effective, Intelligent Problem-Solving Tool

Symantec Introduces The #1 Award-Winning Disk Cleaning Utility As Part of Norton Family

February 9, 1999

Norton AntiVirus for OS/2 Detects, Eliminates Virus Threats on OS/2 Workstations

February 1, 1999

Symantec Norton 2000 Only Y2K Solution to be Named to Windows Magazine's Top 100 List

January 27, 1999

Symantec Expands Management Team with Vice President Promotions

January 26, 1999

Symantec Named Best Software Partner for 1998 by Merisel

January 25, 1999

Symantec Norton 2000 Beats Six Competitors to be Named Reviewer's Ch
Government Computer News

January 21, 1999

Norton SystemWorks Continues to Set the Pace in Retail Sales

Symantec to Expand Management Team for Next Phase of Growth

January 19, 1999

Norton AntiVirus Chosen As Key Component in IBM e-Business Security S

January 18, 1999

Symantec's Norton AntiVirus Easily Outmatches Competition in PC World "
Roundup for Second Consecutive Year

January 14, 1999

Symantec's Norton Utilities and WinFax Pro Ace Competition for Fifth Cons
in Readers' Choice Awards

Oracle Standardizes on Symantec Corporate Solutions Worldwide

January 13, 1999

Symantec Offers Tivoli Customers a Free Upgrade to Norton Antivirus Plus
Industry's First Certified Tivoli Ready Antivirus Solution

January 12, 1999

Norton SystemWorks Trounces McAfee Office in Product Face-Offs

January 5, 1999

Thousands of Norton AntiVirus 5.0 Customers Use Scan and Deliver for Sp
Automatic File Analysis

January 4, 1999

Symantec VP of Worldwide Operations and CFO Resigns

Tivoli and Symantec Announce Year 2000 Solution for Small to Medium Bu

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***** VIRUS ALERT *** VIRUS ALERT *** VIRUS
ALERT *****

Unique Computer Virus Can Be Continually Updated By Virus Writer From Central Location

**Symantec Detects W95.Babylonia Computer Virus that
Disguises Itself as
a Y2K Fix**

W95.Babylonia Y2K Virus Description:

- A new Y2K virus has been discovered that disguises itself as a Y2K fix - the virus was discovered on December 6, 1999.
- The virus is unique - it has the ability to download the viral components of the virus from the Internet. When the virus is executed, the virus will wait for an Internet connection. When it detects that the computer can access the Internet, it will download several files from a web server in Japan. Because the virus has such capability, it is possible for the virus writer to update the virus centrally.
- W95.Babylonia is a very complex virus that propagates mainly to other computer users via MIRC. MIRC is a text based communication application used to chat over the Internet. When an infected user logs onto MIRC, it will automatically send the virus to everyone within the same MIRC chat room as the infected user. The virus will be sent as a Y2K bug fix. Once this file (Y2K bug fix) is executed, it will infects other 32-bit EXE program files and also Windows Help files.
- SARC currently has approximately 20 submissions of the virus from customers and believes the virus to be spreading quickly worldwide.
- The virus was written by the 29A virus writing group.

Characteristics of Infection:

The virus will try to modify an infected system to display the following message when the computer is booted:

**W95/Babylonia by Vecna (c) 1999
Greetz to RoadKil and VirusBuster
Big thankz to sok4ever webmaster**

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Abracos pra galera brazuca!!!

Eu boto fogo na Babilonia!

The virus will also send an email to
'babylonia_counter@hotmail.com' to track infected computers.

Virus Rating:
Medium/High Risk

Symantec Antivirus Research Center (SARC):
SARC is one of the industry's largest dedicated team of virus experts. With offices located in the United States, Japan, Australia, and the Netherlands, the sun never sets on SARC. The center's mission is to provide swift, global responses to computer virus threats, proactively research and develop technologies that eliminate such threats, and educate the public on safe computing practices. As new computer viruses appear, SARC develops identification and detection for these viruses, and provides either a repair or delete operation, thus keeping users protected against the latest virus threats.

About Symantec

Symantec, a world leader in Internet security technology, provides content security solutions to enterprise organizations and helps companies manage and support workforces that use computers and other mobile devices.

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News Release

New Strains of The Explorezip and Melissa Virus Actively Spread Through Fortune 500 Companies

Symantec Provides Immediate Cure For Both Variants

CUPERTINO, Calif. – Dec. 1, 1999 - Symantec Corp. (Nasdaq: SYMC) today announced that it has detected and repaired new virulent strains of ExploreZip and Melissa that are actively spreading through corporate networks worldwide.

The first virus, W32/ExploreZip.worm.pak, is a variant of the malicious ExploreZip worm that infected users in June 1999. This worm can spread on Windows 95, 98 and NT computers using Microsoft Outlook, Outlook Express and Exchange e-mail programs. The subject line reads "I received your email and I shall send you a reply ASAP. Till then, take a look at the attached zipped docs."

Like the original ExploreZip, W32/ExploreZip.worm.pak contains a malicious payload and will continually attempt to destroy any file with the extension .h, .c, .cpp, .asm, .doc, .ppt, or .xls on infected hard drives and on any computers that are accessible over the local area network. The new variant is virtually identical to the original strain; however, to avoid detection by most anti-virus software, the virus has been concealed using a file compression tool.

The second virus, W97M.Melissa.AA -- a variant of the original Melissa virus that was discovered March 1999 -- is a macro virus that spreads itself in e-mail using Outlook or Outlook Express and Exchange. W97M.Melissa.AA can be contracted from infected Word for Windows documents through e-mail, on floppy diskettes or over the Internet. Once a system is infected, the virus will attempt to send itself out to the first 100 people in the Outlook address book. In addition, W97M.Melissa.AA will infect other document files on the infected computer as they are accessed. If the subsequently infected files are passed on to other users, they too can spread the infection. When an infected document is opened, the virus may attempt to replace any highlighted text in any open word document with a space character.

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W97M.Melissa.AA was detected by Symantec's exclusive Bloodhound heuristic technology, which detects viruses by searching for virus-like behavior, and can detect new or unknown virus strains because they use similar mechanisms as existing viruses to spread themselves. Consequently, Norton AntiVirus customers are automatically protected against W97M.Melissa.AA. All Norton AntiVirus products incorporate Symantec's advanced heuristic technology, which has to date been able to detect more than 90 percent of new and unknown macro viruses.

"Both of these computer worms are capable of spreading rapidly through e-mail. Additionally, W32/ExploreZip.worm.pak has the potential to cause serious damage," said Vincent Weafer, director of the Symantec AntiVirus Research Center. "We urge users to update their anti-virus definitions immediately and to continue to keep their definitions up to date to ensure that their critical data remains protected."

To obtain immediate protection against W32/ExploreZip.worm.pak and W97M.Melissa.AA, Norton AntiVirus customers can download the current virus definition sets through Symantec's LiveUpdate feature or from the Symantec Web site at www.symantec.com/avcenter/download.html.

Symantec AntiVirus Research Center

SARC is one of the industry's largest dedicated team of virus experts. With offices located in the United States, Japan, Australia, and the Netherlands, the sun never sets on SARC. The center's mission is to provide swift, global responses to computer virus threats, proactively research and develop technologies that eliminate such threats, and educate the public on safe computing practices. As new computer viruses appear, SARC develops identification and detection for these viruses, and provides either a repair or delete operation, thus keeping users protected against the latest virus threats.

About Symantec

Symantec, a world leader in Internet security technology, provides content security solutions to enterprise organizations and helps companies manage and support workforces that use computers and other mobile devices.

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News Release

Symantec Alliances To Deliver Internet-Based Content Security Solutions To Homes And Businesses

Symantec Teams With Inktomi and Family Click

CUPERTINO, Calif. October 25, 1999 - Symantec Corporation (Nasdaq: SYMC) today announced strategic alliances with Inktomi and Family Click, to provide integrated content security solutions to home and business computer users through their Internet service providers. Through these and similar relationships, Symantec's anti-virus and patent-pending I-Gear® web filtering technologies will become integrated services within the Internet infrastructure through enterprise-level content security solutions.

Symantec will license its I-Gear web filtering technologies to Family Click, who will offer the technology to its customers as an added value service integrated into their overall Internet offering. Symantec expects to integrate its anti-virus and patent-pending I-Gear web filtering technologies with the Inktomi Traffic Server network cache platform. Symantec expects to reach a broad customer-base through these partnerships from home users of Family Click's dial-up service to the larger enterprises integrating Inktomi's Traffic Server network cache platform.

"Our goal is to make the Internet a safe and productive environment for families and businesses," said John W. Thompson, Symantec's chairman, president and CEO. "By partnering with key players in the Internet service provider space, we are integrating content security into the overall infrastructure, ensuring a base level of security for everyone connecting to the Internet. "

These alliances are the latest step in Symantec's strategy toward becoming a critical part of the Internet infrastructure to provide businesses and consumers a safe, clean pipeline to the Internet. Symantec's strategy leverages the company's core competency in content security to provide solutions to keep customers' data and networks secure when they interact with the Internet. The strategic market development group that Symantec recently

announced will continue to pursue opportunities with other potential partners in the Internet infrastructure space.

"We are very pleased to work with Symantec to deliver a new layer of intelligence and security over the Internet," said Mark Thomas, director of business partnerships at Inktomi. "The Traffic Server platform, which powers the world's largest networks, along with Symantec's content security solutions, will be the catalyst for a new wave of compelling Internet services."

Inktomi Traffic Server is a network cache platform designed to help Internet infrastructure and content providers scale up their operations to meet rapidly growing demand and performance requirements. The addition of Symantec's anti-virus and I-Gear web filtering technologies to the Traffic Server platform is expected to provide a seamlessly integrated content security service for heavily-loaded networks. The service also is expected to offer service providers new opportunities for differentiation, while offering enterprises better management and control of their networks.

Symantec's I-Gear boosts Internet productivity with the most comprehensive, policy based Internet access control software available. In addition to the content category database, I-Gear's patent-pending Dynamic Document Review[®] (DDR) provides real-time filtering technology that reviews Web documents on the fly, enabling safe use of search engines and new web pages not yet categorized. With Symantec's anti-virus technology, ISP subscribers will have automatic protection against viruses, malicious ActiveX controls and Java applets, and other dangerous mobile code. The technology protects users surfing the Internet or getting information from floppy disks, CDs, or a network. It also automatically scans incoming attachments in the most popular email programs.

About Symantec

Symantec is a world leader in Internet security technology and technology solutions that help companies manage and support workforces that use laptop computers and other mobile devices.

The company is a leading provider of software products for the consumer market and is rapidly growing its presence as a provider of solutions to enterprise organizations

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News Release

Norton Antivirus Corporate Edition 7.0 Automatically Protects Corporations Against Malicious Virus Attacks

Product Helps Maintain Corporate Anti-Virus Policies, Offers Centralized Management

CUPERTINO, Calif. Sept. 14, 1999 - Symantec Corporation (Nasdaq: SYMC) today announced Norton AntiVirus Corporate Edition 7.0, and Symantec System Center, the next generation in a family of best-of-breed products. The solution protects corporations from malicious virus attacks and is one part of Symantec's Norton AntiVirus Enterprise Solution. Symantec System Center will allow companies to easily manage Norton AntiVirus Corporate Edition 7.0 as well as maintain appropriate anti-virus policies inside the enterprise. The solution uses state-of-the-art patented technology developed by Symantec, IBM, and Intel to deliver virus protection that keeps systems running at peak performance.

"Norton AntiVirus Corporate Edition 7.0 is a significant step forward in corporate virus protection for desktops and servers, providing intelligent, proactive problem-detection and problem solving capabilities," said Enrique Salem, vice president of Symantec's Security and Assistance Business Unit. "With the inclusion of the next generation of Scan and Deliver, the product enables virus cures to be created and delivered faster than the malicious code can spread in many cases."

Norton AntiVirus Corporate Edition 7.0 and Symantec System Center include proven systems and policy management technology from Intel. This technology allows administrators to easily and efficiently protect, control, and monitor all machines in a domain, including both Windows NT and NetWare servers, from a single centralized console. Norton AntiVirus Corporate Edition 7.0 is available in managed and standalone configurations, thereby giving administrators the flexibility to select the most appropriate anti-virus software for their mixed desktop/mobile client environments.

With Norton AntiVirus Corporate Edition 7.0, corporations

receive multi-tier protection for Windows 9x, Windows NT/2000 workstation and server, NetWare, and Windows 3.x/DOS.

Using the Quarantine Server, administrators have a safe central location for isolating suspicious files or files damaged beyond repair. Administrators can then easily submit these files to SARC for analysis. The new Quarantine console allows administrators to manage the Quarantine Server either locally or from a remote computer. This console allows the IT manager to visually track virus status and set parameters for virus management across domains. The new DefWatch feature enables the IT manager to monitor and control the processing of infected files being held in Quarantine when new virus definitions are returned from SARC.

Norton AntiVirus Corporate Edition 7.0 also includes a new version of the highly successful Scan and Deliver feature that provides customers with the most complete and accurate anti-virus protection cycle available. The new Scan and Deliver is an automatic, global response process for submitting suspected or infected files and receiving new virus repair definitions over e-mail. When a new viral event is discovered at a client, the system can automatically package and forward the sample to the Quarantine Server from where it can be submitted directly to SARC. Once SARC receives the sample, it is automatically passed to the new Symantec AntiVirus Research Automation (SARA) technology which can in turn, automatically create a cure and transmit the resulting fix back to the reporting corporation. The cure is also made available to other service subscribers, which significantly minimizes the possibility of widespread infection. This automation technology will greatly reduce the amount of time to create a cure for a new virus, providing much relief to the IT administrator from today's fast moving threats. The new Scan and Deliver is based on technology co-developed with IBM.

The product is the first anti-virus product to deliver highly automated and hands-free virus protection. To minimize IT costs in the face of unknown virus threats, Norton AntiVirus Corporate Edition 7.0 relies on a unique technology called NAVEX. With this technology, Norton AntiVirus can be updated to include protection from new and unknown viruses without having to redeploy the software.

LiveUpdate provides a simple two-click process for end-user clients or server administrators to get the most current virus definitions from the Symantec web site on a global 24x7 basis. LiveUpdate Admin enables IT managers to download a complete set of the most current virus definitions for the entire domain and for any mix of platform types; these definitions, in turn, are used

by end-users to update their personal virus definitions. Norton AntiVirus Corporate Edition 7.0 also provides microdefinitions incremental virus definition downloads with weekly updates via LiveUpdate Admin. With microdefinitions, instead of sending a complete set of virus definitions to the requestor, only necessary definitions are sent.

Availability

Norton AntiVirus Corporate Edition 7.0 is expected to be available in October 1999.

About Symantec

Symantec is a world leader in Internet security technology and technology solutions that help companies manage and support workforces that use laptop computers and other mobile devices.

The company is a leading provider of software products for the consumer market and is rapidly growing its presence as a provider of solutions to enterprise organizations

NOTE TO EDITORS: If you would like additional information on Symantec Corporation and its products, view the Symantec Press Center at www.symantec.com/PressCenter/ on Symantec's Website.

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SYMANTEC
ENTERPRISE
SECURITY

Norton AntiVirus™ Corporate Edition 7.5

Virus protection for desktops and file servers.

- Digital Immune System for automated submission and delivery of cures via the web
- Centralized, scalable management console built on industry-leading technology
- Enforceable anti-virus policy management across multiple platforms
- NEW: Automated handling of all submissions and cures allow for a more rapid cure delivery and deployment
- NEW: Web-based communications for speed, reliability and security
- NEW: State-of-the-art response infrastructure efficiently manages heavy customer demand for virus definitions during widespread virus outbreaks
- Unique extensible engine technology that incorporates new virus definitions without de-installing/reinstalling application software
- NEW: Web-based installation lets remote users download software and updates
- NEW: Reinitiate Missed Events recognizes missed events, ensuring continuous protection
- NEW: Control of Lightly Managed Clients extends policy management and control capabilities
- NEW: Virus Definition Rollback allows administrators to return to a previous virus definition set
- NEW: Support Node provides instant access to Symantec Enterprise Support Web resources directly from the Symantec System Center™ console

With the increasing frequency of rapidly spreading, destructive viruses such as Melissa and Love-Letter, the need for enterprise-wide virus protection has become a core business requirement. More than just an IT concern, it's an issue that has risen to the boardroom level. To be protected, it is not sufficient to merely have security at the firewall and email gateways. Complete virus protection at the desktop and file-server tiers is a requirement for ensuring system uptime and user productivity.

Enterprise class protection with the Digital Immune System™

Norton AntiVirus Corporate Edition 7.5 provides best-of-breed, multi-platform, enterprise-wide virus protection at the desktop and file server tiers. The Digital Immune System, the result of two years collaborative work with IBM®, provides access to intelligent back-end services and exclusive automated response mechanisms. Closed loop automation is a response feature that analyzes and deploys quality-tested cures faster than viruses can spread. Even in the face of unusually heavy demand during widespread attacks, Symantec's scalable back-end architecture ensures fast delivery of the virus definitions required for complete protection.

A critical part of the Security Lifecycle

The Security Lifecycle—today's most recognized model for enterprise security—calls for the continuous management of security issues through the ongoing assessment, planning, implementation, and monitoring of risks and solutions. Norton AntiVirus Corporate Edition solidly supports the model's implementation and monitoring phases. Once IT managers have accessed their environment and determined the level of anti-virus protection needed at the desktop and file server tiers, they plan the implementation of Norton AntiVirus Corporate Edition on an enterprise-wide basis. Once deployed, Norton AntiVirus Corporate Edition provides a range of robust monitoring and alerting features to ensure that network protection remains operational and effective.

Norton AntiVirus Corporate Edition allows IT managers to set and lock down policies that keep systems up to date and properly configured, fully protecting users at all times. Administrators can manage policies from a centralized console to keep DOS, Windows® 3.x, Windows 9.x, Windows 2000, Windows NT®, and NetWare® servers and desktops updated and properly configured. All client settings can be locked down so that users cannot change them. Or client systems can be configured by the management console and then monitored. If a virus is detected, a repair is automatically launched and an alert is broadcast to the IT administrator via the Symantec System Center console.

Manage Norton AntiVirus Corporate Edition from a single, centralized console.

Easy Installation and deployment

The Symantec System Center enables the centralized deployment of virus definitions and product updates to multi-platform desktops and file servers. This significantly reduces the cost of deploying updates across the enterprise. Centralized distribution reduces deployment headaches, such as "sneaker nets," failed jobs, and bad installations. And centralized management simplifies enterprise planning and the creation of server hierarchies and groups. The installation process intelligently anticipates problems that may be encountered. As such, the likelihood of a failed installation—which could lead to network problems—is greatly reduced.

Advanced technology provides an automatic virus protection cycle

Norton AntiVirus Corporate Edition features an unprecedented level of automation with the Digital Immune System. The Digital Immune System automates the submission of potential threats and automatically delivers cures to the problem machine or the entire

enterprise. In conjunction with a sophisticated back-end infrastructure consisting of hardware resources, architectural design, and the latest scanning engines and Web crawlers, the Digital Immune System ensures that enterprise customers are provided the highest levels of service availability.

Combined with around-the-clock vigilance from SARC™ (Symantec AntiVirus Research Center)—the world's largest anti-virus laboratory—Norton AntiVirus Corporate Edition greatly reduces the turnaround time on new virus submissions and cures. A number of intelligent and powerful technologies enhance the solution's automatic response capabilities:

- **NAVEX™** (Norton AntiVirus Extension) technology enables the rapid, cross-platform deployment and automatic updating of scanning/repair engines in the course of regular updates to virus definitions. Without the need to redeploy software or reboot the system, customers can now receive cures for completely new types of threats that

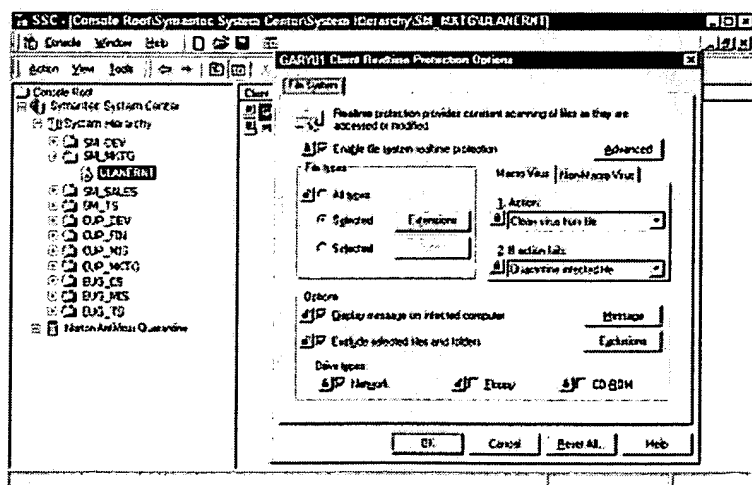
cannot be addressed with traditional virus signatures—including macro, Windows, and Office 2000 viruses.

- Internet-based **Scan & Deliver** technology with back-end closed loop automation allows administrators to easily submit suspicious files directly and automatically to Symantec via the Internet using HTTPS—without IT intervention. This eliminates the reliance on email and enables the automatic delivery of virus cures back to the Administrator. This allows the Administrator to control the level of automation. The cure can be tested first or automatically deployed to the infected endpoint or the entire corporation. And it significantly cuts response time for fast-moving threats, helping reduce the likelihood of network downtime during attacks.

- Symantec heuristic **Bloodhound™** technology identifies unknown viruses by detecting virus-like behavior. Bloodhound has been shown to provide real-time protection from more than 90 percent of new macro viruses and more than 80 percent of new file viruses.

- **Central Quarantine** centralizes virus management by allowing administrators to redirect all irreparable, virus-infected files to a "safe" area on a centralized server for further inspection. It provides greater protection by removing viruses from the main computing environment and prevents them from spreading inside the organization. And since it strips sensitive, proprietary data from macro virus infected files before submitting them to SARC, it also helps maintain IT credibility.

- Utilizing breakthrough automated macro virus analysis and repair technology, **SARA** (Symantec AntiVirus Research Automation) analyzes samples submitted to SARC and emails a virus definition to cure the new virus.



The Symantec System Center provides automatic node discovery, installation, real-time configuration and lock down, on-demand management tasks, event logging, alerting, and automated responses from a central console.

- **Virus Definition Transport Method (VDTM)** offers the best method to quickly deploy new virus definitions to managed desktops and file servers. Simply place a new set of virus definitions onto a primary server and definitions automatically cascade to secondary servers and client desktop machines.

- **LiveUpdate™** offers a fast, easy way to keep virus definitions up to date, particularly for customers who have remote users or slow LAN and WAN links. End users or administrators simply run their first LiveUpdate session during installation and schedule future sessions to run automatically.

These automated technologies and services of the Digital Immune System allow Norton AntiVirus Corporate Edition to provide responses to new viruses faster and with less IT intervention than ever before.

A key component of Symantec Enterprise Security

Norton AntiVirus Corporate Edition is a key component of Symantec Enterprise Security, a comprehensive and modular Internet security solution for enterprise computing environments. The solution allows corporations to manage the complete Security Lifecycle of their computing environment—from assessment and planning to implementation and monitoring. Symantec Enterprise Security enables customers to build the best security solution for their organization by choosing from Symantec's best-of-breed, multi-platform Internet security products, manageability and administration tools, and world-class professional services and support.

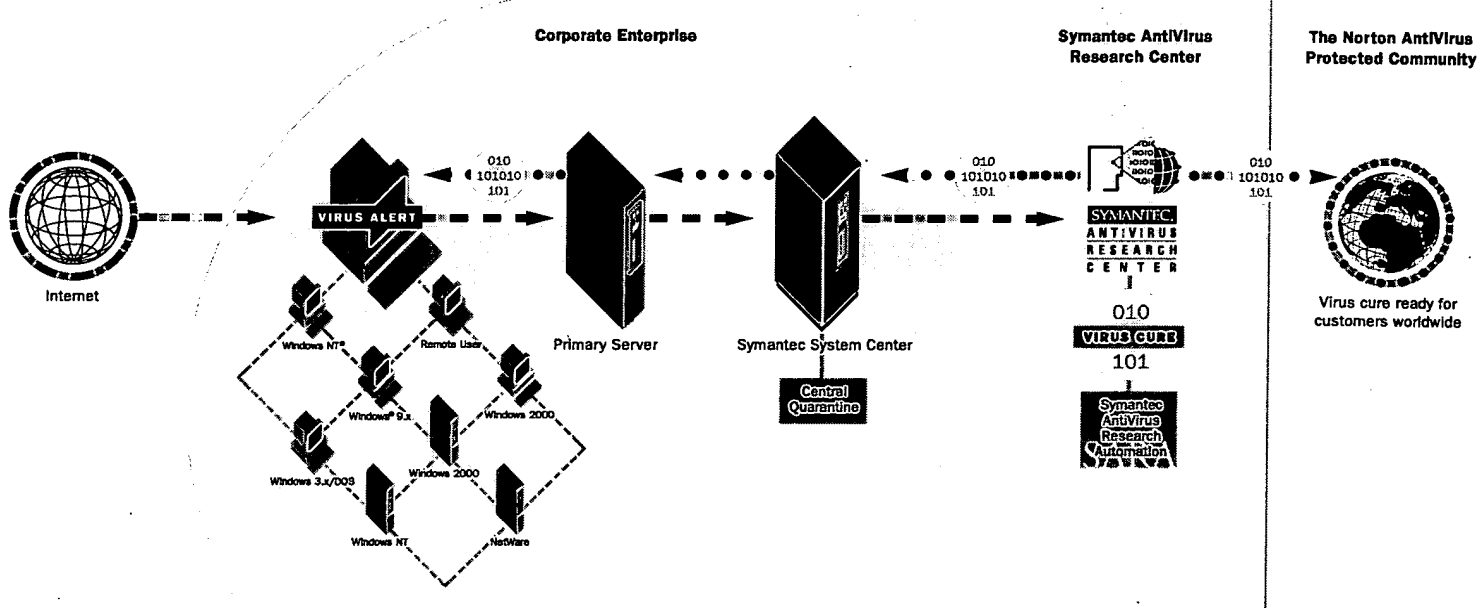
Today's solution for enterprise-wide virus protection

Virus protection is no longer just an insurance policy. It is a top-level management issue and a core business requirement. The solution? Norton AntiVirus Corporate Edition 7.5 provides multi-tier, multi-platform enterprise-wide virus protection. With a centralized, scalable management console and expert technologies from IBM, Norton AntiVirus Corporate Edition delivers proactive, automated virus protection that maximizes system uptime and IT credibility while minimizing TCO. See how it can meet your enterprise security needs. Find out more today.

To find out more visit

<http://enterprisesecurity.symantec.com>

DIGITAL IMMUNE SYSTEM – CLOSED LOOP AUTOMATION



Within the Corporate Enterprise

Detection and Quarantine - 2:00 am
Norton AntiVirus heuristic Bloodhound technology detects suspicious virus activity.

The suspect files are safely quarantined on the client and a copy is sent to the Central Quarantine Server via the Symantec System Center console.
- 2:05 am

Virus Submission - 2:10 am
The quarantined file is ready for submission. IT administrators have the option of stripping content before automatically submitting the infected file to Symantec via the Internet (HTTPS).

Real-Time Submission Tracking -
Utilizing the Central Quarantine Console the administrator can track the status of the submission in real-time.

Symantec AntiVirus Research Center (SARC)

Virus cure and deployment - 3:00 am
The virus is analyzed by SARA and a remedy is created and tested. The new virus definition is automatically and securely delivered back to the customer's Central Quarantine Server via the Internet (HTTPS).
- 3:10 am

The IT administrator can test the new remedy first or deploy it directly to the infected system(s) or the entire enterprise.
- 3:15 am

The virus cure is now available, via SARC to all Norton AntiVirus customers worldwide.
- 3:20 am

Product Information

For more information on Symantec corporate solutions call:
1 (800) 745-6054 or visit:
<http://www.symantec.com/solutions/>

Licensing

For information on licensing Symantec products call:
1 (800) 745-6054 or visit:
http://shop.symantec.com/purchase/vlp/index_na

Technical Support

To find out about a full range of technical support and upgrade programs call:
1 (800) 441-7234 or visit:
<http://www.symantec.com/pss/moreinfo>

Symantec corporate solutions are provided through a network of offices in 33 countries around the world. For location information visit www.symantec.com.

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About Symantec

Symantec, a world leader in Internet security technology, provides a broad range of content and network security solutions to individuals and enterprises. The company is a leading provider of virus protection, risk management, Internet content and email filtering, remote management and mobile code detection technologies to customers. Headquartered in Cupertino, California, Symantec has worldwide operations in more than 33 countries.

System Requirements

Symantec System Center

- Approximately 14MB free disk space (includes 5.3MB for AMS support files)
- Windows NT v4.0 SP3
- Internet Explorer 4.01
- MMC 1.1 (installed if absent or older version)
- 64MB RAM
- 72MB Swap file
- 10MB disk space for AMS2 files

Quarantine Server and Quarantine Console

- Windows NT Server 4.0 with Service Pack 3 or higher
- Windows NT Server DCOM module
- 64MB RAM
- 11MB hard drive free space for the application plus space for the quarantined items (up to 4095MB)
- Administrator rights to Windows NT Servers or Windows NT domain where you plan to install Norton AntiVirus Server

Norton AntiVirus Server Files

- 75MB hard drive space

Norton AntiVirus Client Disk Image

- 30MB hard drive space

Windows NT Server

- Windows NT Server 4.0 with Service Pack 4 or higher
- Pentium® processor (Pentium Pro processor or higher recommended)
- Minimum 32MB of RAM (64MB or higher recommended)
- 30MB of hard disk space for the Norton AntiVirus client/server disk image
- Administrator rights to Windows NT Servers or Windows NT domain where you plan to install Norton AntiVirus Server

NetWare Servers

- 3.12, 3.24, 4.1x or 5.x (SFTIII and SMP supported)
- Required with NetWare 3.12: STREAMS.NLM v3.12 (or later) AFTER311.NLM v4.12 and CLIB.NLM v3.12g (or later)
- Required with NetWare 4.x: LIBUPF or better
- 3MB RAM (above standard NetWare requirements) for Norton AntiVirus Server NLMs

MS-DOS requirements (Client)

- 33MHz Intel® 386 processor or higher
- 640KB of system memory
- 2MB extended memory
- 6MB of hard disk space
- Use of any extended memory manager, such as EMM386

Windows 3.1 Requirements (Client)

- Intel® 486 processor or higher
- Minimum 16MB of RAM
- 640KB of system memory
- 17MB of hard disk space

Windows 95/98/NT/2000 requirements (Client)

- Minimum Intel® 486 processor (Pentium processor or faster recommended)
- Minimum 16MB of RAM
- 30MB of hard disk space

Platforms Supported

Client	Server
DOS	Windows NT
Windows 3.x	Windows 2000
Windows 9.x	NetWare 3.12
Windows NT	
Windows 2000	

SYMANTEC.

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CUPERTINO, Calif.--(BUSINESS WIRE)--Oct. 31, 2000

Latest Component of Symantec Enterprise Security Offers

Enhanced Manageability and Administration

Symantec Corp. (Nasdaq:SYMC), the leader in Internet

security, today

announced Norton AntiVirus Corporate Edition 7.5, which
provides

customers with enterprise-class protection at the desktop and
file/print

server tiers of the corporate network. Symantec's Norton
AntiVirus

Corporate Edition 7.5 is a key component of Symantec Enterprise
Security, a

comprehensive and modular Internet security solution for
enterprise

computing environments.

Norton AntiVirus Corporate Edition 7.5 is the only product
in the

anti-virus market with closed-loop automation technology. This
technology

is a part of the Digital Immune System, a sophisticated back-end
infrastructure designed to provide enterprise customers with the
highest

levels of protection available. The Digital Immune System greatly
improves

system uptime by providing automatic, reliable, and hands-free
virus

detection, analysis, and delivery of virus cures to an infected
PC or

entire corporation with or without administrator intervention
depending on

the needs of the administrator. New flood control capabilities
also

decrease bandwidth problems that occur when too many users

attempt to
submit infected files.

"The increased use of the Web and the growing adoption of
more

Internet technologies provide fertile ground for viruses to
spread quickly
and in epidemic proportions," said Gail Hamilton, senior vice
president,

Enterprise Security Division, Symantec. "As part of Symantec
Enterprise

Security, Norton AntiVirus 7.5 enables customers to build the
best security

solution for their organization."

Norton AntiVirus Corporate Edition 7.5 includes several
new features

to ease administration and manageability:

-- As part of the Digital Immune System, Internet-based Scan and
Deliver no

w

offers the ability to submit infected files to Symantec via the
Internet us
ing

HTTPS, removing the reliance of an email-based submission system.
Internet

Scan

& Deliver provides faster submissions, faster virus response time
and incre
ased

security.

-- Web-based installation support allows customers to point their
clients a

t an

internal Web server and download the software, thereby
eliminating the need

to

rely on login scripts or third-party distribution tools. Support
for resuma

ble

downloads eliminates the need to restart a download from the
beginning if t

he

connection is lost while downloading from an Internet Web server.

-- Alert forwarding for lightly managed clients allows administrators to configure and lock-down client settings on hard-to-reach remote/laptop

computers and configure centralized virus alerting for clients not managed by

the central management console.

-- Virus definition rollback gives administrators the option of returning to a

previous set of virus definitions from the convenience of one central location.

Administrators can also reinitiate missed events such as a scheduled virus scan, thereby ensuring maximum virus protection.

-- Support node, an HTML viewer with a live link to Symantec Support, enables

administrators to access timely service and support information without leaving their consoles.

-- Symantec System Center provides an intuitive centralized console for

customers who need to protect, control, and monitor their customers' machines

from a single console. Administrators are able to set and lock down policies to

ensure users are fully protected at all times.

-- NAVEX(TM) technology maximizes system uptime and minimizes total cost of

ownership by creating a single common extensible scanning and repair engine

across multiple tiers -- including Windows 9x, Windows NT, and Windows 2000

--

removing the need to reboot or re-deploy software.

Availability

Symantec's Norton AntiVirus Corporate Edition 7.5 provides multi-tier protection for Windows 2000/9x, Windows NT/2000 workstation and server, NetWare, and Windows 3.x/DOS. For additional product information

call 800/745-6054 or visit <http://www.symantec.com>. To obtain licensing

information or to locate a reseller, visit <http://enterprisesecurity.symantec.com/license/> on the World Wide Web.

Symantec Enterprise Security

Symantec Enterprise Security provides corporations with a comprehensive and modular Internet security solution. The solution allows customers to manage the complete security lifecycle of their computing environment from assessment and planning to implementation and monitoring.

Symantec Enterprise Security enables customers to build the best security solution for their organization by choosing from Symantec's best-of-breed, multi-platform Internet security products; manageability and administration tools; and world-class professional services and support.

Symantec Enterprise Security also includes the Digital Immune System, Symantec's unique technology for automatic detection and cure of security threats.

About Symantec

Symantec, a world leader in Internet security technology, provides a broad range of content and network security solutions to individuals and enterprises. The company is a leading provider of virus protection, risk

management, Internet content and e-mail filtering, remote management and mobile code detection technologies to customers. Headquartered in Cupertino, Symantec has worldwide operations in more than 33 countries.

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Forward Looking Statement: This press **release** contains forward-looking statements. There are certain important factors that could cause Symantec's future development efforts to differ materially from those anticipated by some of the statements made above. Among these are the anticipation of the growth of certain market segments, the positioning of Symantec's products in those segments, the competitive environment in the software industry, dependence on other products, fluctuations in currency exchange rates and economic structures of foreign operations, changes to operating systems and product strategy by vendors of operating systems, and the importance of new Symantec products. Additional information concerning those and other factors is contained in the "Risk Factors" section of the company's previously filed Form 10-K for the year ended March 31, 2000 and Form 10-Q for the quarter ended June 30, 2000.

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News Release

Norton Antivirus Corporate Edition 7.0 Automatically Protects Corporations Against Malicious Virus Attacks

Product Helps Maintain Corporate Anti-Virus Policies, Offers Centralized Management

CUPERTINO, Calif. Sept. 14, 1999 - Symantec Corporation (Nasdaq: SYMC) today announced Norton AntiVirus Corporate Edition 7.0, and Symantec System Center, the next generation in a family of best-of-breed products. The solution protects corporations from malicious virus attacks and is one part of Symantec's Norton AntiVirus Enterprise Solution. Symantec System Center will allow companies to easily manage Norton AntiVirus Corporate Edition 7.0 as well as maintain appropriate anti-virus policies inside the enterprise. The solution uses state-of-the-art patented technology developed by Symantec, IBM, and Intel to deliver virus protection that keeps systems running at peak performance.

"Norton AntiVirus Corporate Edition 7.0 is a significant step forward in corporate virus protection for desktops and servers, providing intelligent, proactive problem-detection and problem solving capabilities," said Enrique Salem, vice president of Symantec's Security and Assistance Business Unit. "With the inclusion of the next generation of Scan and Deliver, the product enables virus cures to be created and delivered faster than the malicious code can spread in many cases."

Norton AntiVirus Corporate Edition 7.0 and Symantec System Center include proven systems and policy management technology from Intel. This technology allows administrators to easily and efficiently protect, control, and monitor all machines in a domain, including both Windows NT and NetWare servers, from a single centralized console. Norton AntiVirus Corporate Edition 7.0 is available in managed and standalone configurations, thereby giving administrators the flexibility to select the most appropriate anti-virus software for their mixed desktop/mobile client environments.

With Norton AntiVirus Corporate Edition 7.0, corporations

receive multi-tier protection for Windows 9x, Windows NT/2000 workstation and server, NetWare, and Windows 3.x/DOS.

Using the Quarantine Server, administrators have a safe central location for isolating suspicious files or files damaged beyond repair. Administrators can then easily submit these files to SARC for analysis. The new Quarantine console allows administrators to manage the Quarantine Server either locally or from a remote computer. This console allows the IT manager to visually track virus status and set parameters for virus management across domains. The new DefWatch feature enables the IT manager to monitor and control the processing of infected files being held in Quarantine when new virus definitions are returned from SARC.

Norton AntiVirus Corporate Edition 7.0 also includes a new version of the highly successful Scan and Deliver feature that provides customers with the most complete and accurate anti-virus protection cycle available. The new Scan and Deliver is an automatic, global response process for submitting suspected or infected files and receiving new virus repair definitions over e-mail. When a new viral event is discovered at a client, the system can automatically package and forward the sample to the Quarantine Server from where it can be submitted directly to SARC. Once SARC receives the sample, it is automatically passed to the new Symantec AntiVirus Research Automation (SARA) technology which can in turn, automatically create a cure and transmit the resulting fix back to the reporting corporation. The cure is also made available to other service subscribers, which significantly minimizes the possibility of widespread infection. This automation technology will greatly reduce the amount of time to create a cure for a new virus, providing much relief to the IT administrator from today's fast moving threats. The new Scan and Deliver is based on technology co-developed with IBM.

The product is the first anti-virus product to deliver highly automated and hands-free virus protection. To minimize IT costs in the face of unknown virus threats, Norton AntiVirus Corporate Edition 7.0 relies on a unique technology called NAVEX. With this technology, Norton AntiVirus can be updated to include protection from new and unknown viruses without having to redeploy the software.

LiveUpdate provides a simple two-click process for end-user clients or server administrators to get the most current virus definitions from the Symantec web site on a global 24x7 basis. LiveUpdate Admin enables IT managers to download a complete set of the most current virus definitions for the entire domain and for any mix of platform types; these definitions, in turn, are used

by end-users to update their personal virus definitions. Norton AntiVirus Corporate Edition 7.0 also provides microdefinitions<incremental virus definition downloads<with weekly updates via LiveUpdate Admin. With microdefinitions, instead of sending a complete set of virus definitions to the requestor, only necessary definitions are sent.

Availability

Norton AntiVirus Corporate Edition 7.0 is expected to be available in October 1999.

About Symantec

Symantec is a world leader in Internet security technology and technology solutions that help companies manage and support workforces that use laptop computers and other mobile devices.

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